

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/02727

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> D02J 1/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> D02G, D02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model  
Applications 1971-2003, Japanese Registered Utility Model Gazette 1994-2003, Japanese Gazette  
Containing the Utility Model 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPIL, JOIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/73556 A (UEDA TEXTILE SCIENCE FOUNDATION), 2000.12.07, CLAIMS & US 6497952 B1	1-4, 7-13, 15-20, 24-28
Y		1-28
X	JP 2000-290823 A (Toray Industries, Inc.), 2000.10.17, CLAIMS, FIGURE (FAMILY NONE)	1-4, 7-13, 15-20, 24-28
Y		1-28
X	AKIHIKO SUZUKI, "Application of High Power CO <sub>2</sub> Laser-heating Zone-drawing to PET Fibers", Polymer Preprints, Japan Vol.50, No.4 (2001), The Society of Polymer Science, Japan, 2001.05.07 p.787	1-4, 7-13, 15-20, 24-28
Y		1-28
Y	JP 49-81621 A (Teijin Limited), 1974.08.06, CLAIMS (FAMILY NONE)	1-28
Y	JP 11-21737 A (NIPPON ESTER Co., Ltd.), 1999.01.26, CLAIMS (FAMILY NONE)	1-28

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

04.07.03

Date of mailing of the international search report

22.07.03

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